REMARKS

The Official Action of September 9, 2004 has been carefully considered and reconsideration of the application as amended is respectfully requested.

The recitations formerly in claim 3 have been incorporated into claim 1, and claims 2 and 3 have been canceled. New claims 67-68 have been added more completely to define the subject matter which Applicants regard as their invention. Support for the recitations in these claims appears, for example, in the examples appearing on pages 90-93 of the specification, and specifically Examples 17-19 (see Table 1 on page 92), wherein it is shown that an after-treatment with a treatment agent comprising the recited sulfur compounds results in an improved effect in both the light resistance and gas resistance of the recorded matter in the evaluations described on pages 90-91.

The claims stand rejected under 35 USC 102(b) as allegedly being anticipated by the references cited at paragraphs 6-9 of the Official Action. However, the references cited at paragraphs 7-9 have not been applied against the recitations formerly in claim 3, which have now been incorporated into claim 1. Accordingly, the amendment to the claims is respectfully believed to remove the bases for the rejections in these paragraphs. With respect to the rejection in view of the Shores reference cited at paragraph 6 of the Official Action, Applicants respectfully traverse this rejection.

The claimed invention is based upon Applicants' finding that treatment of the surface of recorded matter with a treatment agent containing at least one of the claimed sulfur compounds provides the treated surface with improved characteristics, such as improved light resistance, gas resistance, water resistance, etc. (see specification at paragraph bridging pages 12 and 13). This is shown by the Examples in the specification, as discussed above.

The claimed invention requires that the recited recorded matter be treated by a sulfur compound selected from the recited Markush group. The Markush group includes "derivatives" of the other recited sulfur compounds, which by dictionary definition includes only compounds derived or obtained from the other recited compounds and containing essential elements of the other (parent) compounds (see American Heritage Dictionary definition submitted herewith). In contrast, the cited Shores reference describes only treatment agents containing siloxane polyelectrolytes; it does not show or suggest treatment agents comprising the recited sulfur compounds or derivatives thereof.

The Examiner pointed out that according to Shores, "The OP varnish contains a thio derivative, an example of which is thlourea (3:26-30)." However, the actual citation is that "If an atom of oxygen in the reactive functional group of one of the ingredients is replaced by an atom of sulfur, the reaction product becomes a thio derivative, such as thiocarbamate, thiourea or thioester."

Here, "an atom of oxygen in the reactive functional group of one of the ingredients" is oxygen in the functional group of the oligomer A, the monomer B or the optionally monomer C (see Shores at 2:60-3:11). In other words, Shores' thiourea is the siloxane polyelectrolyte containing the thiourea; it is not one of the recited sulfur compounds or a derivative of any one of such compounds.

In view of the above, it is respectfully submitted that the cited art does not show or suggest all of the claim limitations and is insufficient to set forth a *prima* facie case of alleged anticipation or obviousness. Accordingly, it is respectfully submitted that the prior art rejections of record have been overcome and that the application is now in allowable form. An early notice of allowance is earnestly solicited and is believed to be fully warranted.

Respectfully submitted,

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Second College Edition

American Heritage Dictionary

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All correspondence and inquiries should be directed to Reference Division, Houghton Mifflin Company One Beacon Street, Boston, MA 02108

Library of Congress Cataloging in Publication Data Main entry under title:

American Heritage dictionary.

Rev. ed. of: American Heritage dictionary of the English language. New college ed. c1976.

1. English language—Dictionaries. 1. Morris, William, 1913—

PE1625.A54 1982 423 82-9346

ISBN 0-395-32943-4

ISBN 0-395-32944-2 (thumb index)

ISBN 0-395-33959-6 (deluxe edition)

Manufactured in the United States of America

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1930's. [After the Great Depression, a period of severe economic hardship during the 1930's.]
depressive (di-pressiv) adj. 1. Causing depression. 2. Of or pertaining to psychological depression.

adv. —de-pres'sive-ness n

adv. —de-pres'sive-ness n.

de-pres-sor (di-pres'sr) n. 1. Something that depresses or is used to depress. 2. A depressor nerve. 3. Any of several muscles that cause depression or contraction of a part.

4. An instrument used to depress a part.

depressor nerve n. A nerve that lowers arterial blood pres-

de-pres-sur-ize (de-presh'o-riz') tr.v. -ized, -iz-ing, -iz-es. To

ne-pres-survize (de-presn's-nz) It.V. -ized, -iz-ing, -iz-es. 10 release from pressure. --de-pres-sur-ize-iton node-prival (di-prival) n. Deprivation deprivation (dep'rs-va'shan) n. 1, a. The act of depriving; loss. b. The condition of being deprived; privation, 2. A removal of rank or office.

noval of rank or office.

de-prive (dI-priv') i.r.v.-prived, -priving, -privea. 1. To take something away from; dispossess: Redistricting deprived the state of two congressional seats. 2. To keep from possessing or enjoying; deny: He was deprived of his just acclaim. 3. To remove from office: [ME depriver < OFr. depriver < Med. Lat. deprivare: Lat. de-, completely + Lat. privare, to rob < privas, without.]—de-priva-ble adj. de-prived (dI-privar) adj. Characterized by deprivation, esp. of economic or social necessities. de-pro-gram (de-pro-gram', gram) ir.v. grammed, -gramming; -grams or -gramed, -gram-ing, -grams. To counteract or try to counteract the effect of an indoctrination, esp. a religious indoctrination.—de-pro-gram/mer n. depth (depth) n. 1. The condition or quality of being deep. 2. a. The extent, measurement, or dimension downward, backward, or inward. b. The linear measurement or sense of distance from an observation point, as perspective in paint-

backward, or inward. B. The linear measurement of sense of distance from an observation point, as perspective in painting. 3. Often depths. A deep part of or place: in the depths of the forest. 4. The most profound or intense part or stage: the depth of despair. 5. The severest or worst part: in the depth of winter. 6. A bad or deteriorated condition: Productive the depth of winter. 6. A bad or deteriorated condition: Productive the depth of winter. the depth of despair. 5. The severest or worst part: in the depth of winter. 6. A bad or deteriorated condition: Production has fallen to incredible depths. 7. Intellectual complexity or penetration; profundity: a novel of great depth. 8. The range of one's understanding or competence: beyond one's depth. 9: The degree of richness or intensity: depth of color. 10. Lowness in pitch.—Idlom. In depth. With thoroughness: a study in depth. [ME depthe < dep., deep.] depth charge n. A charge designed for explosion under water, used esp. against submarines. depth perception n. Perception of spatial relationships, esp. of distances between objects, in three dimensions depth psychology n. 1. Psychology of the unconscious, esp. as distinguished from the psychology of conscious behavior. 2. Psychoanalysis.

depurate (dep'ya-rat') ir. & intr.v. -rat-ed, -rat-ing, -rates. To cleanse or purify or become cleansed or purified. [Med. Lat. depurare, depurat: 1. Lat. de., away + purus, pure.]—depuration (dep'ya-rat'shan) n. 1. a. The act of deputing. b. The state of being deputed. 2. A person or group appointed to represent another or others; delegation. depute (di-pyosi) f. tv. - put-ed, -put-ing, -putes, 1. To appoint or authorize as an agent or representative. 2. To assign (authority or duties) to another; delegate. [ME deputer < LLat. deputare, to allot < Lat., to consider depute (de de value) futer, delegate (de value) futer, deputed, ttx-ing, -ttz-es. To

OFr. deputer < I.Lat. deputare, to allot < Lat., to consider de. apart, away + putare, to trim, arrange.]</p>
deputize (dep'ya-tiz') tr. & intr.v. -tized, -tiz-lng, -tiz-es. To appoint as or serve as a deputy. -dep'uti-ze'don n. deputy (dep'ya-tip. n. pl. -ties. 1. A person named or empowered to act for another. 2. An assistant exercising full authority in the absence of his superior and equal authority in emergencies. 3. A representative in a legislative body in certain countries. [ME depute < OFr. < p.part. of deputer, to depute.</p>

de-rac-i-nate (da-ras'a-nat') tr.v. -nat-ed, -nat-ing, -nates. To

deracti-nate (de-ras-nat) tr.v. -nat-eq. -natural, natural pull out by or as if by the roots; uproot. [< Fr. deraciner < OFr. desraciner : des., apart (< Lat. dis.) + racine, root < LLat. radicing < Lat. radix.] —de-racti-nation n. de-rail (de-ral) intr. dt.rv. -railed, -rail-ing, rails. 1. To run or cause to run off the rails. 2. To be thrown or throw off course. [Fr. derailler : de-, off (< Lat. de-) + rail, rail < E.] —de-rail (ment n. de-rall'ment n.

de-rail-fur (di-rāl)r) n. A gear mechanism on a bicycle that changes bicycle gear ratio by moving the chain from one sprocket to another: [Fr. derailler, to become derailed: de. off (< Lat. de.) + rail, rail < E.]

off (< Lat. de.) + rail, rail < E.]
de-range (di-rail) 1r.v. -ranged, -rang-ing, -rang-i Derby.]

de-reg-u-late (de-reg/ya-lat/) tr.v. -lat-ed, -lat-ing, -lates

decontrol.—deregiviation n. it that decontrol.—deregiviation n. dere-lict (dero-likt') adj. 1: Neglectful of duty or obligation; remiss. 2. Deserted by an owner or guardian; abandoned.—n. 1. Abandoned property; esp. a ship abandoned at sea. 2. A homeless or jobless person; vagrant. 3.d. and left dry by a permanent recession of the water line. [Lat. derelicitus, p.part. of derelinquere, to abandon] del completely + relinquere, to leave behind (re; behind)

duty. 2. Abandonment. 3. Law. a. A gaining of land by the permanent recession of the water line. b. The landing.

permanent recession of the water line. B. The landusgamed.

de-ride (di-rid') tr.v. -rid-ed, -rid-ing, -rides. To speak offorteat with contemptuous mirth [Lat. deridere : de (pcjorative) + ridere, to laugh at.] —de-rid'er n. —de-rid'ingity adderi-gueur (do re-gœr') adj. Required by the current fashion or custom; socially obligatory. [Fr.]

de-ri-slon (di-rizh'an) n. 1. a. An act of deriding; ridicule, b. A state of being derided, 2. An object of ridicule, laughingstock. [ME deristour < OFr. deriston < Lat. deristor, [ME deristour < OFr. deriston < Lat. deristor, and the deri-slow (di-ri-slow (di-ri-slow), -ris'v, -ris'v, -ris'). adj. Mocking; solideri-slow (di-ri'so-va') adj. Derivative.

deri-vate (der'-a-va') adj. Derivative. something is derived; origin. 5. The historical origin and development of a word; etymology. 6. Ling. The processity which new words are formed from existing words; chiefly the addition of affixes to roots, stems, or words. 7. Math. A logical or mathematical process indicating through a sequence of statements that a result such as a theorem of compile necessarily follows from the initial process.

formula necessarily follows from the initial assumptions der'i-va'tlon-al adj.

de-riva tion at adj.

de-riva tive (di-riva-tiv) adj. 1. Resulting from derivation.

2. Copied or adapted from others: a derivative prose style.

—n. 1. Something derived. 2. Ling. A word formed from another by derivation. 3. Math. The limit, as the increment in the argument of a function approaches zero, of the ratio of the increment in its value to the corresponding increment in the argument; the instantaneous rate of change of a function with respect to a variable. 4. Chem. A compound defined the standard of the compound of the compo rived or obtained from known or hypothetical substance and containing essential elements of the parent substance and containing elements o

and containing essential elements of the parent substance—de-riva-tive-lys adv.—de-riva-tive-ness n. de-riva-tive-ness n. de-riva-tive-

vare, to derive: de, away + rivus, stream.]—de-rivene adj.—de-river n. derm (d\u00fcm) n. Variant of derma!. derm - pref. Variant of derma--derm suff. Skin; covering: blastoderm. [< Gk. derma, skin] dermat (d\u00fcrm) also derm (d\u00fcrm) or dermis (d\u00fcrm) is n. Anat. The corium. [NLat. < Gk., skin.] dermat (d\u00fcrm) n. Beef casing stuffed with a seasoned mu-ture of restron read or flour onion, and suet, prepared by

derma² (dûrma) n. Beef casing stuffed with a seasoned mixture of matzo meal or flour, onion, and suet, prepared by boiling, then roasting. [Yiddish derme, pl. of darm, intestine < MHG < OHG.]
derma or derm- or dermo- pref. Skin: dermal. [< Gk. derma, skin.]
-derma suff. Skin, skin disease: scleroderma. [NLat. < Gk. derma, skin.]

der-ma-bra-slon (dûr'ma-bra'zhən) n. A surgical procedure

designed to remove skin imperfections, such as scar wrinkles, through the abrasion of the frozen epidermis. der-mal (dûr məl) also der-mic (-mik) adj. Of or pertaining to the skin.

dermat-pref. Variant of dermato-.
der ma-ti-tis (dur mo-ti-tis) n. Inflammation of the skin.
dermato- or dermat-pref. Skin: dermatone. [< Gk. derma. dermat-, skin.]

dermat., skin.]
dermato-gen (dûr-māt'ə-jən) n. Bot. The outer layer of meristem, from which the epidermis is formed.
derma-told (dûr'mə-toid) n. Resembling skin.
derma-tolo-ogy (dûr'mə-toi-je) n. The medical study of the physiology and pathology of the skin. —der'ma-to-foi-i-cai (-ta-loj'f-kai) adj. —der'ma-to-fo-gist'n.
der'ma-tome (dûr'mə-tom') n. The lateral wall of a somite from which the contum is formed.

der mat o phyte (dur mat o fit, dur mo to) n. Any of var ious fungi that cause skin disease. —der mat o phytic (fit.

derma-to-phy-to-sis (dûr'mə-tō'fi-tō'sis) n. Athlete's fool derma-to-plas ty (dûr'mə-tō-plas tē) n. The use of skin der ma to plas ty (dur mo to plas te) n. The use of skin grafts in plastic surgery to correct defects or replace skin loss. der-ma-to-sis (dûr/mə-tő/sis) n., pl. -ses (-s

dermatous suff. Having a specified kind or matous. [< Gk. derma, dermat., skin.] dermic (dûr'mik) adj. Variant of dermal. dermis (dûr'mis) n. Variant of dermal.

dermis (uui nus) n. variant of derma-dermo- pref. Variant of derma-dernier cri (der'nya kre') n. The latest thin

dermor prej. minute dermor prej. minute dermler cri (der'nya kre') n. The latest this ion. [Fr.: dermier, last + cri, cry.] dero-gate (der'o-gat') v. gat-ed, gat-lng.

1. To take away: detract: an error that will a reputation. 2. To deviate from a standard or astray.—tr. To disparage; belittle. [Lat. de to take away: de, away. + rogare, to ask.] n.—derog'a-tlov (di-rog'o-tlov', der'o-ga', derrick (dèr'ik) n. 1. A large crane for hois heavy objects, consisting of a movable boor cables and pulleys and connected to the ba stationary beam. 2. A tall framework over ti oil well or other drilled hole, used to suppcement or to hoist and lower pipe lengths. [t oil well of other dinker dinkers. It lows, hangman, after Derick, 16th-cent. En derrière also derrière also derrière (dêrè-àr') n. The [Fr. < derrière, behind < OFr. deriere, in b retro.

uer-ring-do (derling-doo') n. Daring spirit a [ME < dorring don, daring to do.] der-rin-ger (derlin-jar) n. A short-barreled p bore. [After Henry Deringer, 19th-cent.

smith.]
derris (der'is) n. Any of various woody vip
Derris, of tropical Asia, whose roots yield 1
< Gk., covering.]
dervish (ddr'vish) n. A member of any of

orders of accetics, some of which employ and the chanting of religious formulas to p tive ecstasy. Turk. dervis, mendicant < Per DES (de²-esc) n: Diethylstilbestrol. de-sal·l-nate (de-sal·a-nat) tr.v. -nated, -nate

desalinize. —de-sal'i-na'tion n. —de-sal'i-n de-sal-i-nize (dē-sāl'o-nīz') tr.v. -nized, -niz remove salts and other chemicals from sea water. --de-sal'i-ni-za'tion n.

de-salt (dē-sôlt') tr.v. -salt-ed, -salt-ing, -salt des-cant (dēs'kānt') n. 1. Also dis-cant (d ornamental melody or counterpoint sung o musical theme. b. The highest part sung in discussion or discourse on a theme. —intr. discussion or discourse on a theme. —intr. skānt') -cant-od, -cant-ing, -cants. 1. To con discourse: "I have now descanted at some lengoing to talk about" (William Dean Howe cant (di-skānt'). Mus. a. To sing or play sing melodiously. [ME < AN descaunt < https://discourse.com/discourse. Lat. dis. apart + Lat. cant of canere, to sing.] —des'cant'er n. de'scend (di-sènd') v. -scend-od, -scendint. 1. To move from a higher to a lo slope, extend, or incline downward: "A scended like a steep stair into the plain" (3. a. To come down from a source; derive an old New England family. b. To pass three discourses and the steep stair of the plain of the standard parties of the stand

an old New England family. b. To pass thre The house has descended in the family. 4. descended to lies and flattery. 5. To arrive on or overwhelmingly: summer tourists descer shore village.—tr. To move from a higher u go down. [ME descenden < OFr. descendre de-, down + scandere, to climb.] -

de-scen-dant (di-sen'dont) n. 1. An indiv from another. 2. Something derived from earlier form. —adj. Variant of descendent de-scen-dent also de-scen-dant (dI-sēn'd ing downward; descending. 2. Proceeding an ancestor.

an ancestor.

de-acender (di-sen'der) n. Printing. The plers, such as g, p, or y, that extends belo most lower-case letters.

de-acent (di-sen') n. 1. The act or an inst ing. 2. A way down. 3. A downward ink slope. 4. a. Hereditary derivation; lineage: can descent. b. The fact or process of comit derived from a source: can trage the descent can ascent. b. The lact or process or counderived from a source: can trace the descent old picaresque tales. c. Development in furning transmission from an original source tion of a specific lineage. 6. Law. Transfet by inheritance. 7. A lowering or decline level. 8. A sudden attack; onslaught. [ME dre, to descend] descram-ble (de-skrām'bəl) tr.v. -bled, -bl

de-scribe (di-skrib') tr.v. -scribed, -scrib-in give a verbal account of. 2. a. To transmi or impression of with words. b. To presen of. 3. To trace or draw the figure of; or



ă pat / ă pay / âr care / ă father / b bib / ch church / d deed / ĕ pet / ē be / f fife / g gag / h hat / hw which / ĭ pit / ī pie / îr pier j judge / k kick / l lid, needle / m mum / n no, sudden / ng thing / ô pot / ô toe / ô paw, for / oi noise / ou out / 60 took / 60 boot /

P pop/r roar/s sauce/sh ship, dish/t'tight zh vision / 2 about, item, edible, gallop, circ